

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/03/01629

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01F15/00 B01F11/00 B03D1/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01F B03D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02 083280 A (ARNOSCO TECHNOLOGY LTD.) 24 October 2002 (2002-10-24) the whole document	1-29
A	US 5 813 760 A (CH.-L. STRONG) 29 September 1998 (1998-09-29) abstract; figures	1, 24-29
A	DATABASE WPI Week 198225 Derwent Publications Ltd., London, GB; AN 1982-51962E XP002271635 & SU 858 898 A ((UMAN-I) UMANSKII M P), 30 August 1981 (1981-08-30) abstract	1

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *G* document member of the same patent family

Date of the actual completion of the international search

1 March 2004

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15/03/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2 615 692 A (H.MÜLLER) 28 October 1952 (1952-10-28) claims; figures ----	1
A	DATABASE WPI Week 198334 Derwent Publications Ltd., London, GB; AN 1983-745919 XP002271636 & SU 967 541 A ((FOME-I) FOMENCO YU A), 23 October 1982 (1982-10-23) abstract -----	1
A	US 4 169 681 A (S.KATO) 2 October 1979 (1979-10-02) claims; figure 1 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP03/01629

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02083280	A	24-10-2002	WO 02083280 A1	24-10-2002
			CA 2444168 A1	24-10-2002
			EP 1381449 A1	21-01-2004
US 5813760	A	29-09-1998	NONE	
SU 858898	A	30-08-1981	SU 858898 A1	30-08-1981
US 2615692	A	28-10-1952	DE 970926 C	13-11-1958
			FR 61589 E	12-05-1955
			FR 979920 A	07-05-1951
			GB 682946 A	19-11-1952
SU 967541	A	23-10-1982	SU 967541 A1	23-10-1982
US 4169681	A	02-10-1979	NONE	